BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Detailed Estimate for Shifting of High Mast and Tubular Poles from IAP Road to Yelahanka Constituency area in Ward No- 1 to 4

Budget Head:-P0298

Ward No.1 to 4 Estimate No..... For Rs.5,00,000.00

Sl No	Description Of Work	Qty	Rate	Unit	Amount
	KPWD (elect) SR 2010-11				
1 25/28	Supplying of light Emitting Diode (LED) street light fittings fabricated with die cast alluminimum base with suitable heat sink for heat dissipation ,the fitting should comprise efficient electronic driver & LED's (with 100-120 Lumens/LED) Completely wired to operate on 230V 50Hz AC supply, (Certificate for driver performance & LED lumens output LM 80 should be furnished) cree/nichia/osram make optically designed high efficiency LED lights should be used polycarbonate transparent cover with IP-66 protection. (INCLUDING 50000 Burning Hours) [Alloy ML-24] II Group B A) 24 Watts	9	5800.00	Each	52200.00
2 43/45	Supplying & fixing ...mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole. using suitable clamps bolts, nuts and wiring using suitable capacity wires etc complete .c) Using 40mm dia G.I pipe	9	935.00	Each	8415.00
3 5/1.2.2	Digging of pits 1.5 mtr depth for errection of of 7.5/8 mtr Long steel/RCC/PSC/PCC supports Hard soil	9	529.00	Per Pit	4761.00
4 29/1.8.3	Concrete Works Providing cement concrete to poles and guysets with material and labour including necessary curing etc., comlpete (cost does not include excavation) c) Providing coping for pole with CC1:2:4 (as per actuals)	9	200.00	Each	1800.00
5 33/2.2	Errection of Poles : Releasing and Re-Errection of Steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, I beam of sizes 200 X 100 mm, 175X 90 mm , 125 X 100 mm, Fabricated poles, tubular poles in pits of 1.8 mtr Depth, aligning, refilling with soil For Errection =Rs 154.00 releasing of materials shall be 90 % of the cost of ereection as per bescom circular BES/GM/(T)/BC-20/F-664/05-06/CYS 174 Dt:10.01.06.Therefore Releasing and Re-Errection = Rs 154.00+ 0.9X154.00=292.60	9	292.60	Nos	2633.40
6 119/13. 14	Street Light and other Works Releasing and Fixing of mercury Vapour lamp fitting /Ornamental light fitting with Control Boxes etc. For Fixing =Rs 224.00 releasing of materials shall be 90 % of the cost of ereection as per bescom circular BES/GM/(T)/BC-20/F-664/05-06/CYS 174 Dt:10.01.06.Therefore Releasing and Fixing = Rs 224.00+ 0.9X224.00=292.60	9	425.60	Set	3830.40
7 43/45	Supplying and fixing Microprocessor based Astronomical timer switch with using necessary bolts, nuts and washers etc.,	2	7515.00	Each	15030.00
8 36/12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required. b) 40-63 Amps SP 1) Group 'A'	2	370.00	Each	740.00
9 34/8	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. c) 60-70 Amps	2	3865.00	Each	7730.00

10 41/37	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. . (32.9a) a) 40x40x6mm	4	240.00	Rmtr	960.00
11 55/63	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/looting of the pole b) Above 5.5 to 7.5 Mtr. Street light pole	9	360.00	Nos	3240.00
12 69/4	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable d) 4 core 16sqmm	325	150.00	Per Mtr	48750.00
13 69/5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct. a) 6sqmm to 16 sqmm	325	8.00	Rmtr	2600.00
14 70/6	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	300	50.00	Rmtr	15000.00
15 9/20	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or consealed system of wiring.I Group A .c) 2.5 sqmm	320	25.00	Per Mtr	8000.00
16 70/9	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class . a. 40 mm	10	240.00	Rmtr	2400.00
17 53/50	Supplying and fixing of HPSV lamps on existing fitting mounted on tubular pole c)250 Watts	21	809.00	No	16989.00
	Supplying and fixing/replacement of ignitor suitable for 70 to 400 watts SV/MH fittings a) Group A	21	520.00	No	10920.00
	Supply and fixing of 400 Watts heavy duty open construction ferromagnetic copper ballast for HPMH lamps c)250 Watts1. Group A	21	1185.00	No	24885.00
18	Casting of suitable foundation for the Octagonal Pole including designing and cost of all materials like Anchor plates,Template and washers labour charges, all other incidental charges etc,. complete as per specification and Drawing given in KPWD elect SR 2010-11(P.No 103) Detailed Calculation as per CIVIL SR items Enclosed.	21	4929.74	Each	103524.54
18	Hire Charges Components for Tractor 50 HP ,Sl no 20, Page No XXXIV, KPWD SR CIVIL 2010-11	2	2240.00	Day	4480.00
19	Hire Charges Components for Crane Charges ,Sl no 66, Page No XXXVI, KPWD SR CIVIL 2010-12	3	3200.00	Day	9600.00
20	Supplying and Fixing 4 Nos of 590 mm length High Yield Tensile Cold Rolled Pitched threads (680 N/sq mm) 27 mm Bolt dia (Mkt Rate)	20	1350.00	Nos	27000.00
	BESCOM S.R Rates				
21 11/44.1	LT 3 phase 5 wire Aerial Bunched Cable of size 3X25+1X16+1X25+1X35 sqmm (Standard Stock materials 2009-10) Rs 81450/ Kmt	900	81.45	P/Mtr	73305.00
22 13/253	Striniging of 1.1 KV grade aerial bunched 3 core cable of XLPE insulation standard aluminium conductor standard around a weather resistant black XLPE insulated AAA messanger wire (3X 50 Sq mm + 1X 16 sqmm + 1X 50 Sqmm + 1X 35 sqmm) 2.(3 X95) (for phase Conductor)+ (1X 50)(insulated messanger neutral)+(1X16)(Labour charges 2010-11) Rs 8961/Kmt	900	8.96	P/Mtr	8064.90
23 9/281	Piercing connector suitable 16 Sqmm - 95 Sqmm AB cable service connections (Standard Stock materials 2010-11)	60	210.00	Nos	12600.00

24 9/286	Dead End Clamp/ Anchor clamps assembly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	2	140.00	Nos	280.00
25 9/287	suspension clamp assemblly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	30	280.00	Nos	8400.00
26 13/255	Errection of suspension clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	30	85.00	Nos	2550.00
27 13/256	Errection of Anchor clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	2	85.00	Nos	170.00
28 13/261	Istallation of insulation piercing connector for main to street light Main: 16 -95 sqmm,Tap: 1.5-10 sqmm (EP 95)	60	40.00	Nos	2400.00
29	Miscellaneous and Bescom Deposit				16794.90
	TOTAL				**500000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2010-11 Rates.and BBMP Approved rates

Jr. Engineer (Elecl) /Asst Eng

Asst. Executive Engineer (Elecl)
Yelahanka Zone, BBMP

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

TECHNICALLY SANCTIONED FOR Rs. 5=00 lakhs
Rupees Five lakhs only
Under POW - 2012-13
P-Code = 0298
Registered as EE ( ) No. 75/2012-13 9 9
Subject to conditions contained in
enclosed memo EE ( ) No TC/Y2/AS/1118/12-13
Dt. 20-3-13 Estimate A/ Sanctioned
EE(ELE)/Y2/TS/79/12-13
Dated 21/3/13 Rs. Rs-5=00 Lakhs

21/03/13
Executive Engineer

ADMINISTRATIVELY SANCTIONED FOR Rs. 5:00 lakhs
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Dt ____ Estimate A/Sanctioned
TC/Y2/AS/1118/2012-13
dated 20/3/2013 Rs 5.00 lakhs

20/3/13
Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92